Government of Saskatchewan

2005 Annual Report

Saskatchewan Health

Vital Statistics

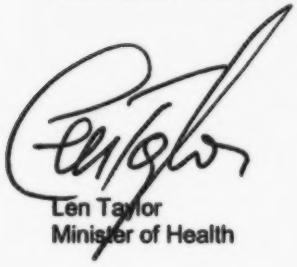
106-06968/

Letters of Transmittal

Her Honour the Honourable Dr. L.M. Haverstock
Lieutenant Governor of Saskatchewan

May It Please Your Honour:

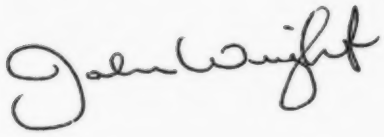
I respectfully submit the Annual Report of Saskatchewan Vital Statistics for the calender year 2005.



Len Taylor
Minister of Health

The Honourable Len Taylor
Minister of Health

I have the honour of submitting the Annual Report of Saskatchewan Vital Statistics for the calender year ending December 31, 2005



John Wright
Deputy Minister of Health

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1993 - 1995, 1997-2005 and final census figures for 1996 and 2001.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Fetal deaths occurring after at least 20 weeks pregnancy or after attaining a weight of at least 500 grams.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Fetal deaths of 500 grams or more plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural Increase	: per 1,000 population

Introduction

The Vital Statistics Annual Report represents a concise record of those vital events which occurred in Saskatchewan during the calendar year. The Report has been prepared in accordance with the requirements of subsections 50(1) and 50(2) of *The Vital Statistics Act, 1995.*

The Vital Statistics Annual Report 2005 records vital events by place of occurrence for 2005 (vital events which occurred in Saskatchewan in 2005). It includes, for example, births to Saskatchewan residents who were in the province at the time of giving birth, as well as residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth.

The data in this report are based on original registration forms and do not include amendments. The vital events recorded in this report for years previous to 2005 are by place of residence, unless otherwise indicated.

Table 1. Summary of Vital Statistics, Saskatchwan 2000 - 2005

Item	2000	2001	2002	2003*	2004*	2005*
Population (ooo's)	1,022	1,017	1,012	995	995	994
Live Births	12,140	12,275	11,761	12,113	12,078	12,104
Crude Rate++	11.9	12.0	11.6	12.2	12.1	12.2
Deaths	8,956	8,740	8,906	8,829	8,881	8,844
Crude Rate++	8.8	8.6	8.7	8.9	8.9	8.9
Natural Increase	3,142	3,475	2,915	3,288	3,197	3,260
Crude Rate++	3.1	3.4	2.9	3.3	3.2	3.3
Infant Deaths	82	68	67	76	71	95
Crude Rate**	6.8	5.5	5.7	6.3	5.9	7.8
Neonatal Deaths	41	63	54	57	62	61
Crude Rate**	3.4	5.2	4.4	4.7	5.1	5.0
Perinatal Deaths@						
500 grams or more (20+ weeks Gestation)	104	128	126	119	124	130
Crude Rate+++	8.6	10.4	10.7	9.8	10.2	10.6
500 grams or more (28+ weeks Gestation)	91	95	97	91	88	97
Crude Rate+++	7.5	7.7	7.8	7.5	7.2	8.0
Stillbirths@						
500 grams or more or (20+ weeks Gestation)	72	81	92	78	86	75
Crude Rate**	6.0	6.7	7.5	6.4	7.1	6.2
500 grams or more (28+ weeks Gestation)	59	49	57	50	50	42
Crude Rate**	4.9	4.0	4.8	4.1	4.1	3.5
Marriages	5,717	5,060	5,067	4,976	5,043	5,121
Crude Rate++	5.6	5.0	5.0	5.1	5.1	5.1
Divorces and Annulments	2,194	1,955	1,959	2,001	1,877	1,925

* Preliminary figures only. Final figures not yet released by Statistics Canada.
** Crude Rate per 1,000 live births
++ Crude Rate per 1,000 population
+++ Crude Rate per 1,000 total births (live births and stillbirths)
@ See Terms and Definitions, page 1

A. Population

1. The Historical Trend

The estimated population of 994,126 for 2005 is a decrease of .12 per cent over the 2004 estimated population of 995,391.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1951	832
1961	925
1971	926
1981	968
1991	991
2001	1,017
2002	1,012*
2003	995*
2004	995*
2005	994*

* Statistics Canada postcensal estimate.
All other figures are final census.

2. The Distribution of the Total Population by Age

The proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan the proportion of persons 65 years of age and over is greater than in Canada as a whole (14.8 percent and 13.1 percent respectively).

Table 3. Distribution of Total Population by Age 2005 (000's)

	Canada		Saskatchewan	
Age Group	Number	Percent	Number	Percent
Total	32,270.5	100.0	994.1	100.0
0-19	7,831.3	24.3	271.9	27.3
20-44	11,774.1	36.5	333.0	33.5
45-64	8,447.4	26.1	242.1	24.4
65+	4,217.7	13.1	147.1	14.8

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

Year	Male	Female	Males per 100 Females
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1981	50.2	49.8	101
1991	49.6	50.4	99
2001	49.6	50.4	98
2002*	49.6	50.4	98
2003*	49.7	50.3	99
2004*	49.7	50.3	99
2005*	49.7	50.3	99

* Statistics Canada postcensal estimate.
All other figures are final census.

B. Births

1. Live Births

During the year 2005, a total of 12,104 live births occurred in the province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the province at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 12,104 live births represents a crude birth rate of 12.2 live births per 1,000 population, which is slightly higher than last year's birth rate of 12.1.

The birth rates for Saskatchewan, for Canada, and for the provinces and territories are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces.

Province	2003-2004	2004-2005
Canada	10.5	10.5
Newfoundland	8.9	8.7
Prince Edward Island	10.3	10.2
Nova Scotia	9.2	9.2
New Brunswick	9.4	9.3
Quebec	9.9	9.9
Ontario	10.6	10.5
Manitoba	12.0	12.0
Saskatchewan	12.1	12.2
Alberta	12.7	12.7
British Columbia	9.6	9.6
Yukon	11.0	11.2
Northwest Territories	16.6	16.6
Nunavut	26.0	26.3

* Estimate from demography division July 1 – June 30.

2. Stillbirths

During the year 2005, a total of 75 stillbirths occurred in the province. The definition of stillbirth is given on page 1. The 75 stillbirths occurred after 20 or more weeks gestation (or attaining a weight of 500 grams or more); 42 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent crude rates of 6.2 and 3.5 stillbirths per 1,000 live births respectively.

C. Deaths

During the year 2005, a total of 8,844 deaths occurred within the province of Saskatchewan. This represents a crude death rate of 9.0 deaths per 1,000 population, which is slightly higher than the 2004 crude death rate.

The death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces.

Province	2003-2004	2004-2005
Canada	7.3	7.3
Newfoundland	8.4	8.6
Prince Edward Island	9.2	9.1
Nova Scotia	8.8	9.0
New Brunswick	8.4	8.6
Quebec	7.5	7.3
Ontario	7.0	7.1
Manitoba	8.7	8.7
Saskatchewan	9.2	9.2
Alberta	6.0	6.1
British Columbia	7.1	7.1
Yukon	5.1	5.3
Northwest Territories	4.0	4.0
Nunavut	4.5	4.6

* Estimate from demography division July 1 – June 30.

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1995 – 2005

Year	All Ages	Age Group Under 5	5-14	15-24	25-44	45-64	65+
1996	8.6	1.9	0.2	0.7	1.2	5.5	47.4
1997	8.4	2.0	0.3	0.7	1.2	5.3	46.9
1998	8.7	1.6	0.1	0.8	1.0	5.2	48.4
1999	8.8	1.5	0.2	0.6	1.1	5.2	49.2
2000	8.8	1.5	0.2	0.8	1.2	4.9	49.0
2001	8.6	1.3	0.1	0.7	1.1	4.9	48.4
2002*	8.7	1.2	0.2	0.7	1.0	4.9	48.9
2003*	8.9	1.3	0.2	0.8	1.2	4.5	49.1
2004*	8.9	1.4	0.2	0.8	1.3	5.0	48.4
2005*	8.8	2.0	0.1	0.9	1.2	3.9	48.2

* Statistics Canada postcensal estimate.
All other figures are final census.

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2005

	Deaths	Percent	Rate*
All Causes of Death	8844	100.0	889.6
1 Salmonella infections	0	0.0	0.0
2 Shigellosis and amebiasis	0	0.0	0.0
3 Certain other intestinal infections	13	0.1	1.3
4 Respiratory tuberculosis	2	0.0	0.2
5 Other tuberculosis	0	0.0	0.0
6 Whooping cough	0	0.0	0.0
7 Scarlet fever and erysipelas	0	0.0	0.0
8 Meningococcal infection	0	0.0	0.0
9 Septicemia	72	0.8	7.2
10 Syphilis	0	0.0	0.0
11 Acute poliomyelitis	1	0.0	0.1
12 Arthropod-borne viral encephalitis	0	0.0	0.0
13 Measles	0	0.0	0.0
14 Viral hepatitis	8	0.1	0.8

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2005

	Deaths	Percent	Rate*
15 Human immunodeficiency virus (HIV) disease	5	0.1	0.5
16 Malaria	0	0.0	0.0
17 Other and unspecified infectious and parasitic diseases and their sequelae	18	0.2	1.8
18 Malignant neoplasms of lip, oral cavity and pharynx	24	0.3	2.4
19 Malignant neoplasm of esophagus	35	0.4	3.5
20 Malignant neoplasm of stomach	49	0.6	4.9
21 Malignant neoplasms of colon, rectum and anus	229	2.6	23.0
22 Malignant neoplasms of liver and intrahepatic bile ducts	40	0.5	4.0
23 Malignant neoplasm of pancreas	120	1.4	12.1
24 Malignant neoplasm of larynx	15	0.2	1.5
25 Malignant neoplasms of trachea, bronchus and lung	541	6.1	54.4
26 Malignant melanoma of skin	25	0.3	2.5
27 Malignant neoplasm of breast	163	1.8	16.4
28 Malignant neoplasm of cervix uteri	10	0.1	1.0
29 Malignant neoplasms of corpus uteri and uterus, part unspecified	19	0.2	1.9
30 Malignant neoplasm of ovary	51	0.6	5.1
31 Malignant neoplasm of prostate	187	2.1	18.8
32 Malignant neoplasms of kidney and renal pelvis	47	0.5	4.7
33 Malignant neoplasm of bladder	58	0.7	5.8
34 Malignant neoplasms of meninges, brain and other parts of central nervous system	50	0.6	5.0
35 Hodgkin's disease	4	0.0	0.4
36 Non-Hodgkin's lymphoma	93	1.1	9.4
37 Leukemia	112	1.3	11.3
38 Multiple myeloma and immunoproliferative neoplasms	38	0.4	3.8
39 Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	0	0.0	0.0
40 All other and unspecified malignant neoplasms	298	3.4	30.0
41 In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	62	0.7	6.2
42 Anemias	28	0.3	2.8

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2005

	Deaths	Percent	Rate*
43 Diabetes mellitus	313	3.5	31.5
44 Malnutrition	7	0.1	0.7
45 Other nutritional deficiencies	0	0.0	0.0
46 Meningitis	3	0.0	0.3
47 Parkinson's disease	71	0.8	7.1
48 Alzheimer's disease	220	2.5	22.1
49 Acute rheumatic fever and chronic rheumatic heart diseases	15	0.2	1.5
50 Hypertensive heart disease	50	0.6	5.0
51 Hypertensive heart and renal disease	6	0.1	0.6
52 Acute myocardial infarction	561	6.3	56.4
53 Other acute ischemic heart diseases	14	0.2	1.4
54 Atherosclerotic cardiovascular disease, so described	125	1.4	12.6
55 All other forms of chronic ischemic heart disease	665	7.5	66.9
56 Acute and subacute endocarditis	2	0.0	0.2
57 Diseases of pericardium and acute myocarditis	6	0.1	0.6
58 Heart failure	328	3.7	33.0
59 All other forms of heart disease	302	3.4	30.4
60 Essential (primary) hypertension and hypertensive renal disease	97	1.1	9.8
61 Cerebrovascular diseases	570	6.4	57.3
62 Atherosclerosis	34	0.4	3.4
63 Aortic aneurysm and dissection	56	0.6	5.6
64 Other diseases of arteries, arterioles and capillaries	42	0.5	4.2
65 Other disorders of circulatory system	18	0.2	1.8
66 Influenza	25	0.3	2.5
67 Pneumonia	243	2.7	24.4
68 Acute bronchitis and bronchiolitis	0	0.0	0.0
69 Unspecified acute lower respiratory infection	4	0.0	0.4
70 Bronchitis, chronic and unspecified	5	0.1	0.5
71 Emphysema	41	0.5	4.1
72 Asthma	0	0.0	0.0
73 Other chronic lower respiratory diseases	310	3.5	31.2
74 Pneumoconioses and chemical effects	4	0.0	0.4
75 Pneumonitis due to solids and liquids	32	0.4	3.2
76 Other diseases of respiratory system	90	1.0	9.1

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2005

	Deaths	Percent	Rate*
77 Peptic ulcer	12	0.1	1.2
78 Diseases of appendix	5	0.1	0.5
79 Hernia	6	0.1	0.6
80 Alcoholic liver disease	33	0.4	3.3
81 Other chronic liver disease and cirrhosis	38	0.4	3.8
82 Cholelithiasis and other disorders of gallbladder	17	0.2	1.7
83 Acute and rapidly progressive nephritic and nephrotic syndrome	1	0.0	0.1
84 Chronic glomerulonephritis, nephritis & nephritis not specified as acute or chronic and renal sclerosis unspecified	2	0.0	0.2
85 Renal failure	179	2.0	18.0
86 Other disorders of kidney	0	0.0	0.0
87 Infections of kidney	2	0.0	0.2
88 Hyperplasia of prostate	3	0.0	0.3
89 Inflammatory diseases of female pelvic organs	0	0.0	0.0
90 Pregnancy with abortive outcome	0	0.0	0.0
91 Other complications of pregnancy, childbirth and the puerperium	0	0.0	0.0
92 Certain conditions originating in the perinatal period	38	0.4	3.8
93 Congenital malformations, deformations and chromosomal abnormalities	37	0.4	3.7
94 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	128	1.4	12.9
95 All other diseases (Residual)	834	9.4	83.9
96 Motor vehicle accidents	108	1.2	10.9
97 Other land transport accidents	2	0.0	0.2
98 Water, air and space, and other and unspecified transport accidents	1	0.0	0.1
99 Falls	76	0.9	7.6
100 Accidental discharge of firearms	0	0.0	0.0
101 Accidental drowning and submersion	10	0.1	1.0
102 Accidental exposure to smoke, fire and flames	11	0.1	1.1
103 Accidental poisoning and exposure to noxious substances	30	0.3	3.0

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2005

	Deaths	Percent	Rate*
104 Other and unspecified nontransport accidents and their sequelae	94	1.1	9.5
105 Intentional self-harm (suicide) by discharge of firearms	26	0.3	2.6
106 Intentional self-harm (suicide) by other and unspecified means and their sequelae	67	0.8	6.7
107 Assault (homicide) by discharge of firearms	5	0.1	0.5
108 Assault (homicide) by other and unspecified means and their sequelae	24	0.3	2.4
109 Legal intervention	0	0.0	0.0
110 Discharge of firearms, undetermined intent	1	0.0	0.1
111 Other and unspecified events of undetermined intent and their sequelae	14	0.2	1.4
112 Operations of war and their sequelae	0	0.0	0.0
113 Complications of medical and surgical care	12	0.1	1.2
900 Not yet classified at time of printing	352	4.0	35.4

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 2005 a total of 332 deaths due to accidents occurred in the province of Saskatchewan. This represents a crude rate of 33.4 deaths by accidents per 100,000 population in 2005. This is lower than the 382 deaths (38.4 crude rate per 100,000 population) recorded in 2004.

Accidents and Violence

The number of suicides that occurred in Saskatchewan during 2005 was 93. This represents a crude rate of 9.4 suicides per 100,000 population. This is lower than the 109 suicides (11.0 crude rate per 100,000 population) recorded in 2004.

There were 29 homicides in Saskatchewan in 2005, an increase from the 25 homicides reported in 2004.

D. Natural Increase in Population

In 2005, the natural increase was 3,260 and the estimated actual increase was -1,265[1] giving rates per 1,000 population of 3.3 and -0.13 respectively.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 1996 – 2005*

				Natural Increase		Est. Actual Increase	
Year	Population	Live Births	Deaths	Number	Rate per 1,000 Pop.	Number	Rate per 1,000 Pop.
1995	1,016,162	13,515	8,475	5,040	5.0	-38	-0.04
1996	1,022,537	12,974	7,713	5,261	5.1	6,375	6.2
1997	1,023,500	12,860	8,637	4,223	4.1	963	0.9
1998	1,024,387	12,777	8,838	3,939	3.8	887	0.9
1999	1,025,495	12,604	9,044	3,560	3.5	1,008	1.0
2000	1,021,992	12,140	8,956	3,184	3.1	-3,503	-3.4
2001	1,017,087	12,275	8,740	3,535	3.5	-4,905	-4.8
2002*	1,011,808	11,761	8,906	2,855	2.8	-5,279	-5.2
2003*	994,843	12,113	8,829	3,284	3.3	-17,325	-17.1
2004*	995,391	12,078	8,881	3,197	3.2	548	0.55
2005*	994,126	12,104	8,844	3,260	3.3	-1,265	-0.13

* Statistics Canada postcensal estimate. All other figures are final census.

Note: Saskatchewan's covered population on June 30, 2005 (per the provincial health registry) was 1,021,080

E. Marriages

During the year 2005, a total of 5,121 marriages occurred in Saskatchewan. This total represents a crude rate of 5.1 marriages per 1,000 population. Marriage rates for Canada, the provinces, and Saskatchewan for 2002 are given on the next page for comparison.

Of the 5,121 marriages registered in Saskatchewan in 2005, 50 of those marriages were between same sex partners.

Table 10. Marriages Rate per 1,000 Population, Canada and the Provinces, 2002

Province	Rate
Canada	4.7
Newfoundland	5.7
Prince Edward Island	6.6
Nova Scotia	5.2
New Brunswick	5.1
Quebec	3.0
Ontario	5.1
Manitoba	5.1
Saskatchewan	5.1
Alberta	5.8
British Columbia	5.2
Yukon	4.7
Northwest Territories	3.5
Nunavut	2.5

F. Divorces

In 2005, a total of 1,925 divorces and annulments were registered in Saskatchewan at the time of publication. This may not represent the total number of petitions filed in 2005 as some petitions may not yet be finalized.

G. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to the Saskatchewan life table compiled on the basis of the 1996 census, the life expectancy at birth reached an all-time peak for females, 81.30 years, and for males, 75.40 years. The gain in life expectancy is greater in females.

Table 11. Life Expectancy, Saskatchewan, 1941, 1961, 1981, 1996.

	Life Expectancy				Gain or Loss In Life Expectancy		
	1941	1961	1981	1996	1961 over 1941	1981 over 1961	1996 over 1981
			Males				
At Birth	65.43	70.27	72.43	75.40	4.84	2.16	2.97
20	51.28	53.49	54.35	56.60	2.21	0.86	2.25
40	33.32	34.99	35.92	37.90	1.67	0.93	1.98
60	16.82	18.10	19.09	20.40	1.28	0.99	1.31
80	5.76	6.31	7.16	7.60	0.55	0.85	0.44
			Females				
At Birth	68.19	75.93	79.61	81.30	7.74	3.68	1.69
20	53.08	58.35	60.85	62.40	5.27	2.50	1.55
40	34.96	39.09	41.64	43.00	4.13	2.55	1.36
60	18.26	21.09	23.65	24.80	2.83	2.56	1.15
80	6.38	7.29	8.94	9.90	0.91	1.65	0.96

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 were calculated for Saskatchewan by the Department of Health. The figures for 1981 and 1996 were taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1980-1982 and 1995-1997.

H. Adoptions

There were 143 adoptions registered in Saskatchewan during 2005, compared to 130 adoptions in 2004. The total of 143 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

I. Legal Changes of Name

During 2005, a total of 894 legal change of name applications were registered in Saskatchewan. This represents an increase from the 748 change of name applications that were registered in 2004. The number of applications does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.

J. Documents Issued

Table 12. Documents Issued 2002 – 2005

Document type	2002	2003	2004	2005
Birth Certificates	47,141	48,013	47,853	47,317
Marriage Certificates	4,914	5,375	5,090	5,500
Death Certificates	4,840	5,040	5,674	4,840
Copies of Registrations	10,283	10,202	9,539	9,058
Total	67,178	68,630	68,156	66,715